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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,314	07/01/2004	Leonard Shaner	81100061 / FMC 1755 PUS	4313
	7590 06/26/200 HMAN P.C./FGTL	EXAMINER		
1000 TOWN CENTER			SPISICH, GEORGE D	
22ND FLOOR SOUTHFIELD:	, MI 48075-1238		ART UNIT	PAPER NUMBER
			3616	
			MAIL DATE	DELIVERY MODE
			06/26/2008	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/710,314	SHANER ET AL.			
Office Action Summary	Examiner	Art Unit			
	GEORGE D. SPISICH	3616			
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period v  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>19 Fe</u>	ebruary 2008.				
	action is non-final.				
· <del>-</del>	<del></del>				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-14,16-20,22 and 23</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-14,16-20,22 and 23</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	• , ,	, ,			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	o-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	nte			
Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	аіені Арріісаціоп			

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1,7,22 and 23 are rejected under 35 U.S.C. 102(e) as being anticipated by Sato et al. (USPUB2003/0168836).

Sato discloses a side airbag (1) apparatus (see at least Figs. 7 and 8) having side aspect including a generally triangular portion disposed toward a front of the airbag when the airbag is deployed. The side aspect being "at least partially" defined by a posterior edge, a top edge extending forward from the posterior edge, at least a potion of the bottom edge extending forward and upward toward the top edge, such that the side aspect narrows from a back region to a front region. The generally triangular portion being defined by the top edge, and an axis intersecting the top edge and the bottom edge. Due to the broad language of "at least a portion" of the bottom edge, the term "triangular portion", and "at least partially define" the airbag of Sato includes a tapering portion (in side view, the forward half of the airbag) that has "a portion" of the bottom edge extending forward and upward from the posterior edge. It includes a

triangular portion (not claimed to be the entire side of the airbag). Given this "sub" portion, there is a posterior and forward area of this sub-portion. Furthermore, the axis may be drawn at any portion of the airbag and at any angle so as to meet the claim limitation and define the triangular "portion".

Sato shows an inflator cooperating with the airbag to supply gas thereto, thereby facilitating deployment of the airbag.

The airbag shows what is well known in the airbag art, to provide a reinforced region (any area of the airbag such as the central portion/chamber) for providing additional strength to the airbag.

The portion of the bottom edge extending forward and upward is connected to the top edge by a radiused corner (near 16).

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2,8,13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato et al. (USPUB2003/0168836) in view of Steffens Jr. et al. (USPN 5,439,248).

Sato et al. has been discussed in the prior rejection. However, the airbag of Sato et al. does not have a wedge shape rear aspect.

Steffens et al. (as shown in at least Fig. 6) shows a side airbag having a generally wedge shaped rear aspect narrowing from an upper region to a lower region. This shaped would provide more protection in the upper torso/upper arm region of an occupant.

It is well known in the airbag art to have various shapes for airbags that provide protection in a variety of vehicle locations and with respect to parts of a vehicle occupant's body as deemed necessary.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the airbag of Sato et al. so as to provide a wider portion of the airbag towards the upper portion of the airbag and a tapering portion towards the lower portion (where impact with the occupant's torso not as harsh due to the mass and width of the upper torso) so as to provide a wedge-shaped rear aspect as taught by Steffens Jr. et al. so as to provide enhanced protection for an occupant seated adjacent the deployed airbag.

Claims 3 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato et al. (USPUB2003/0168836) in view of Kai et al. (USPN 7,108,278).

Sato et al. has been discussed in the prior rejection. However, the airbag of Sato et al. does not have a wedge shape top aspect or vent holes to exhaust air from the airbg.

Kai et al. (as shown in at least Fig. 6) shows a side airbag having a generally wedge shaped top aspect narrowing from a posterior region to a front region. This

shaped would provide more protection in the upper torso/upper arm region of an occupant.

It is well known in the airbag art to have various shapes for airbags that provide protection in a variety of vehicle locations and with respect to parts of a vehicle occupant's body as deemed necessary.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the airbag of Sato et al. so as to provide a wider portion of the airbag towards the posterior portion of the airbag and a tapering portion towards the front portion (where impact with the occupant's torso not as harsh due to mass and width of the upper torso) so as to provide a wedge-shaped top aspect as taught by Kai et al. so as to provide enhanced protection for an occupant seated adjacent the deployed airbag.

Claims 4,5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato et al. (USPUB2003/0168836) in view of Keshavaraj et al. (USPN 6,344,251).

Sato et al. has been discussed in a prior rejection. However, Sato et al. does not show the airbag comprising a polymeric material of at least 600 denier or the inflator configured to inflate the airbag to at least 25 pounds per square inch.

Although Examiner maintains that it is well known in the art to use a known fabric of desired strength and an inflator that provides adequate inflation for occupant protection, Examiner is further relying on Keshavaraj et al. for this teaching.

Keshavaraj et al. (see col. 2, lines 45-67) discloses the use of a polymeric material having up to 840 denier and compatible with inflation of (col. 1, lines 50-52) pressures as high as 50 psi.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use any known material and inflator characteristics in the airbag arrangement of Sato et al. such as one having the parameters and that is disclosed by Keshavaraj et al. since providing a strong airbag would be more durable and provide enhanced protection for the occupant seated beside the airbag.

Claims 9,12 and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato et al. (USPUB2003/0168836) in view of Steffens Jr.et al. (USPN 5,439,248) as applied to claims 2,8,13 and 14 above, and further in view of Kai et al. (USPN 7,108,278).

Sato et al. in view of Steffens Jr. et al. have been discussed in a prior rejection. However, neither reference shows a wedge shaped top aspect.

Kai et al. (as shown in at least Fig. 6) shows a side airbag having a generally wedge shaped top aspect narrowing from a posterior region to a front region. This shaped would provide more protection in the upper torso/upper arm region of an occupant.

It is well known in the airbag art to have various shapes for airbags that provide protection in a variety of vehicle locations and with respect to parts of a vehicle occupant's body as deemed necessary.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to further modify the airbag of Sato et al. in view of Steffens Jr. et al. to further have a tapered view from the top aspect, narrowing from a posterior region to a front region as taught by Kai et al. so as to provide enhanced protection for an occupant seated adjacent the deployed airbag.

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Claims 10,11,16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato et al. (USPUB2003/0168836) in view of Steffens Jr. et al. (USPN 5,439,248) as applied to claims 2,8,13 and 14 above, and further in view of Keshavaraj et al. (USPN 6,344,251).

Sato et al. in view of Steffens Jr. et al. has been discussed in a prior rejection. However, neither Sato et al. nor Steffens Jr. et al. show the airbag comprising a polymeric material of at least 600 denier or the inflator configured to inflate the airbag to at least 25 pounds per square inch.

Although Examiner maintains that it is well known in the art to use a known fabric of desired strength and an inflator that provides adequate inflation for occupant protection, Examiner is further relying on Keshavaraj et al. for this teaching.

Keshavaraj et al. (see col. 2, lines 45-67) discloses the use of a polymeric material having up to 840 denier and compatible with inflation of (col. 1, lines 50-52) pressures as high as 50 psi.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use any known material and inflator characteristics in the airbag

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arrangement of Sato et al. in view of Steffens Jr. et al. such as one having the parameters and that is disclosed by Keshavaraj et al. since providing a strong airbag would be more durable and provide enhanced protection for the occupant seated beside the airbag.

## Response to Arguments

Applicant's arguments with respect to claims 1-14,16-20,22 and 23 have been considered but are moot in view of the new ground(s) of rejection.

Due to the new rejection required because of the argument that Zhao et al. was assigned to Forg Global Technologies, LLC, and not properly relied upon in the 103 rejection(s) in the last Office Action, Examiner has made a new rejection and this Office Action is considered Non-Final. Examiner apologizes for the delays and inconveniences this has caused.

Applicant has claimed a side airbag having a triangular side profile that narrow from rear to front and wedge profiles from the top and rear view that narrows from rear to front and top to bottom respectively. Examiner insists that the claim language which uses the terms "portion" and "at least partially defined" does not require the airbag to looks identical to Applicants. The newly added limitation that an axis define the triangular portion and the axis with forward from the posterior part of the airbag, further allows this interpretation to be defining the claimed structure of the airbag a only a portion. The airbag of Sato et al. can properly be defined by a top edge, a bottom edge

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that tapers as it extends upward to the top edge and an axis (positioned at any point and at any angle) to define a generally triangular "portion" (emphasis on portion). The structure relied to define the triangular portion of Sato et al. is three side and not four sided and therefore defines a triangular portion. Any three sided portion would be considered "generally triangular".

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GEORGE D. SPISICH whose telephone number is (571)272-6676. The examiner can normally be reached on Monday-Friday from 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lesley Morris can be reached on (571) 272-6651. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George D. Spisich/ Examiner, Art Unit 3616 June 22, 2008

> /Lesley D. Morris/ Supervisory Patent Examiner, Art Unit 3611